JVC

SERVICE MANUAL

MODEL JT-V11G

STEREO TUNER

No.2430
JAN.1978

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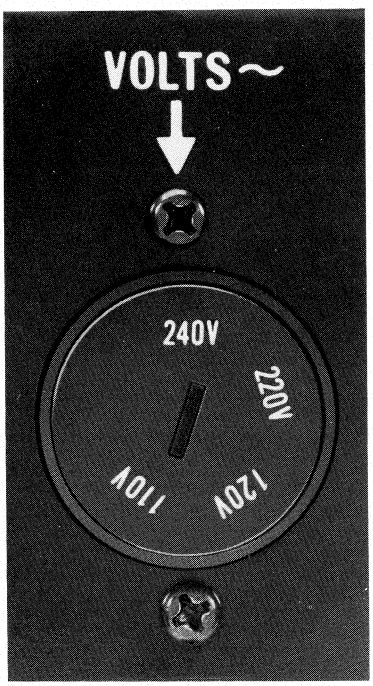


This SET is switchable between line voltages of 110, 120, 220 and 240 volts AC; 50/60 Hz.
The change-over switch is placed on the rear panel of the set.
To select another voltage, turn the change-over switch with a screwdriver or coin.

Note:
When replacing the parts marked with ⚠ , be sure to use the designated parts to ensure safety.

JT-V11G
No.2430

1. Specifications

FM TUNER SECTION

Tuning range	:	88 MHz – 108 MHz
Usable sensitivity (IHF)	:	2.1 μV
Sensitivity for 50 dB S/N (STEREO)	:	45 μV
Distortion		
MONO	:	0.25 % (1 kHz)
STEREO	:	0.45 % (1 kHz)
Signal-to-noise ratio		
MONO	:	70 dB
STEREO	:	65 dB
Selectivity	:	55 dB
Capture ratio	:	1.0 dB
IF rejection	:	90 dB
Stereo separation	:	100 Hz – 30 dB 1 kHz – 35 dB 10 kHz – 30 dB
De-emphasis	:	75 μ sec. or 50 μ sec.
Output level (400 Hz, 100 % Mod.)	:	600 mV

AM TUNER SECTION

Tuning range	:	525 kHz – 1605 kHz
Usable sensitivity	:	350 μV/m (Bar antenna) 50 μV (External antenna)
Signal-to-noise ratio	:	50 dB
Distortion	:	0.8 %
Selectivity	:	30 dB

DIMENSIONS : 6"(H) x 15-11/32"(W) x 13-1/2" (D)
(152 mm x 390 mm x 342 mm)

WEIGHT : 11.0 lbs. (5.0 kg)

2. Removal of Top Cover and Bottom Plate

Procedure and Part Numbers

1. Remove 4 screws (Item No. 44) through the both sides of the top cover (Item No. 39) and 1 tapping screws (Item No. 43) through the back sides of the cover (Item No. 39).
2. Remove the top cover.
3. Remove 4 screws (Item No. 47) from bottom plate (Item No. 6) and remove the bottom plate from the chassis.

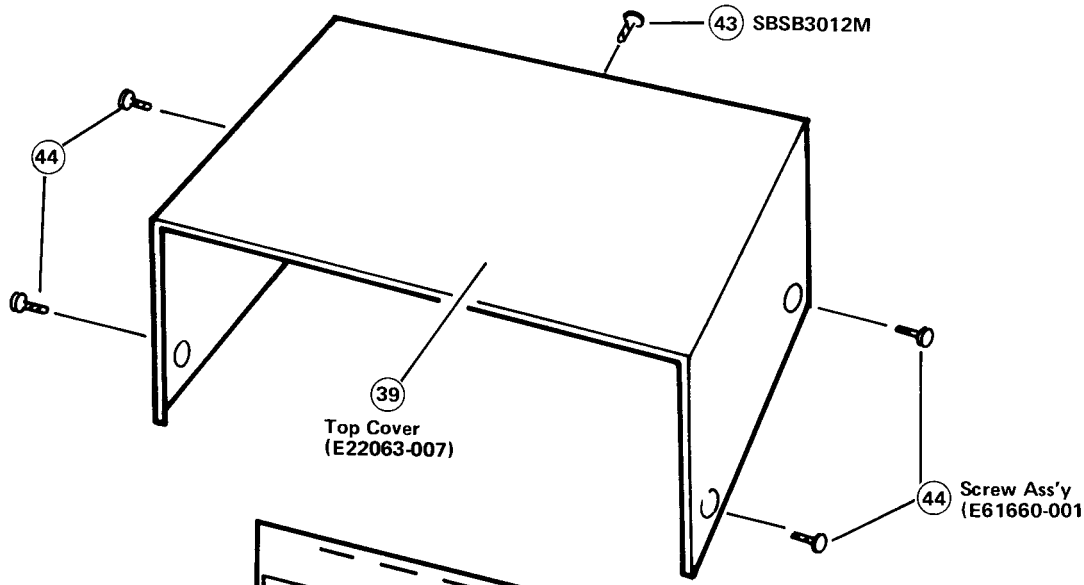


Fig. 1

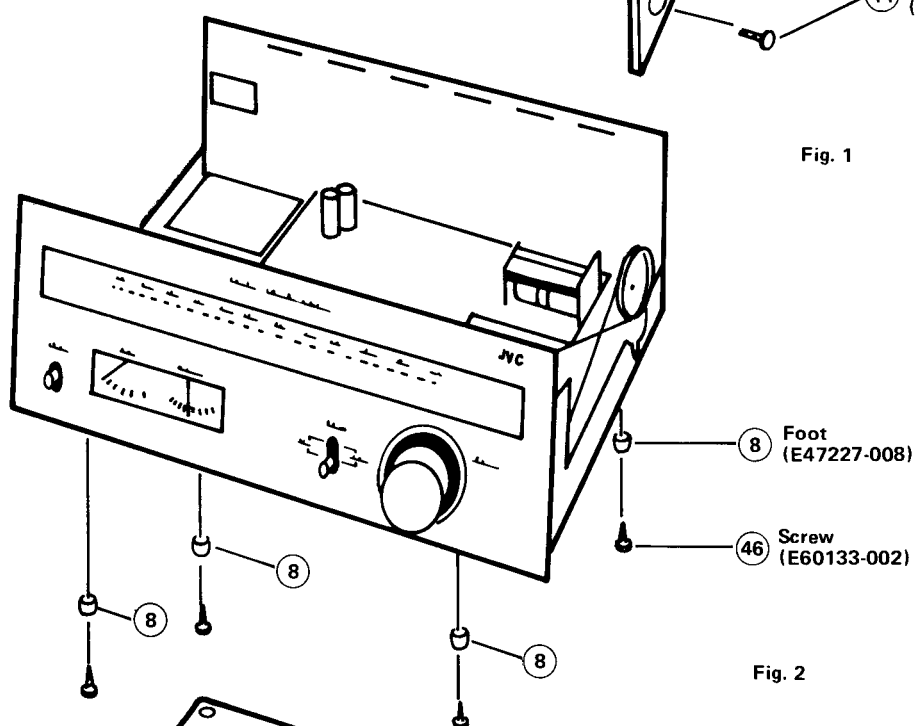


Fig. 2

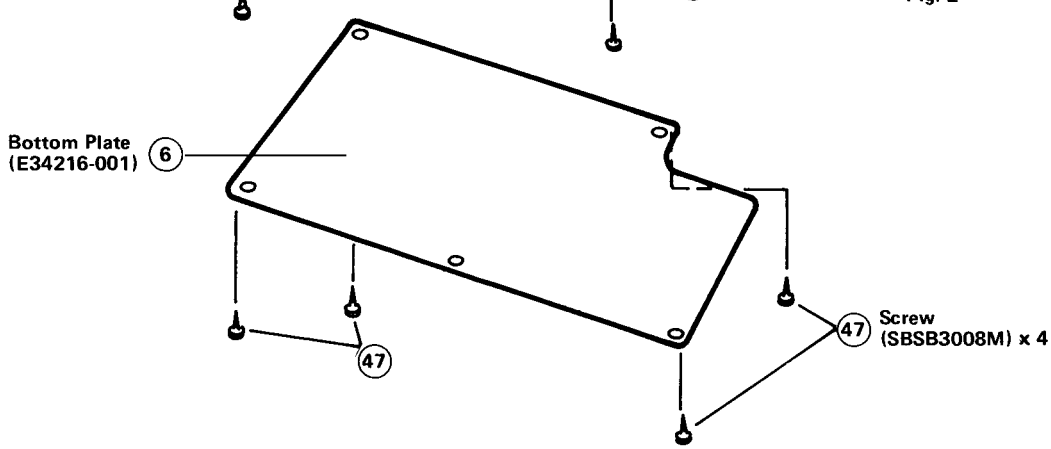


Fig. 3

3. Main Parts Location and Part Numbers

Top View

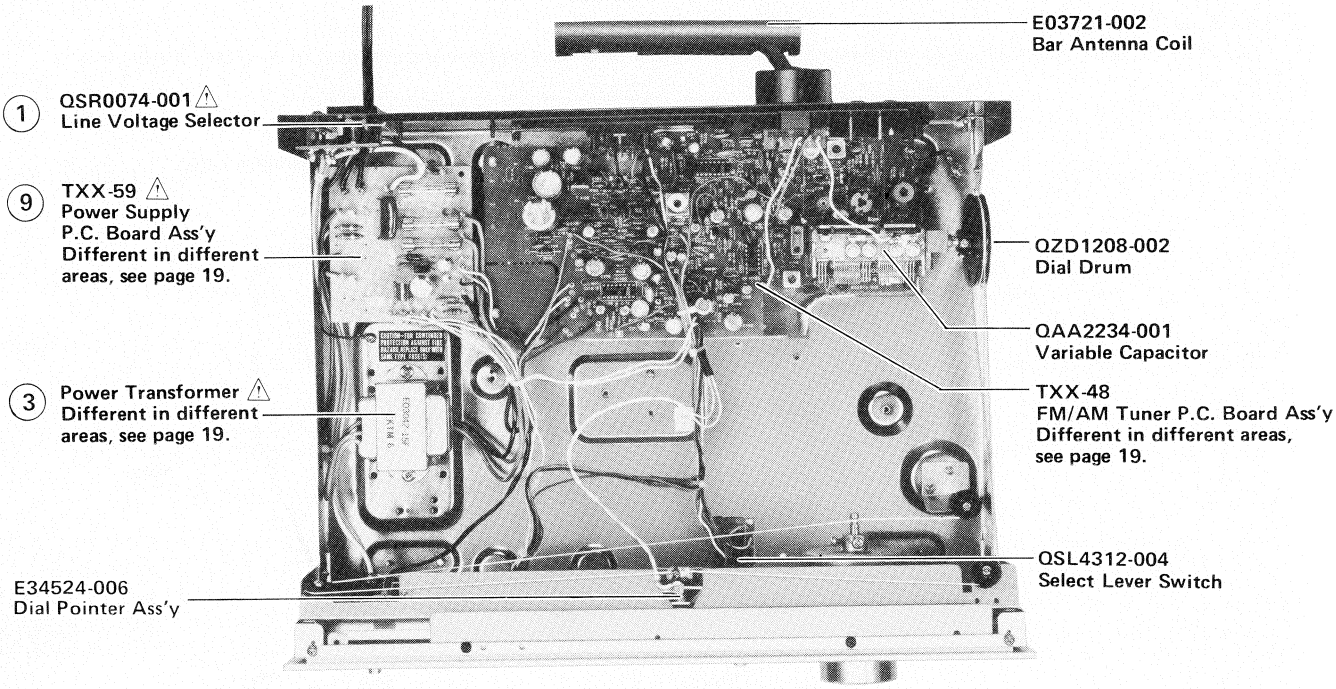


Fig. 4

Bottom View

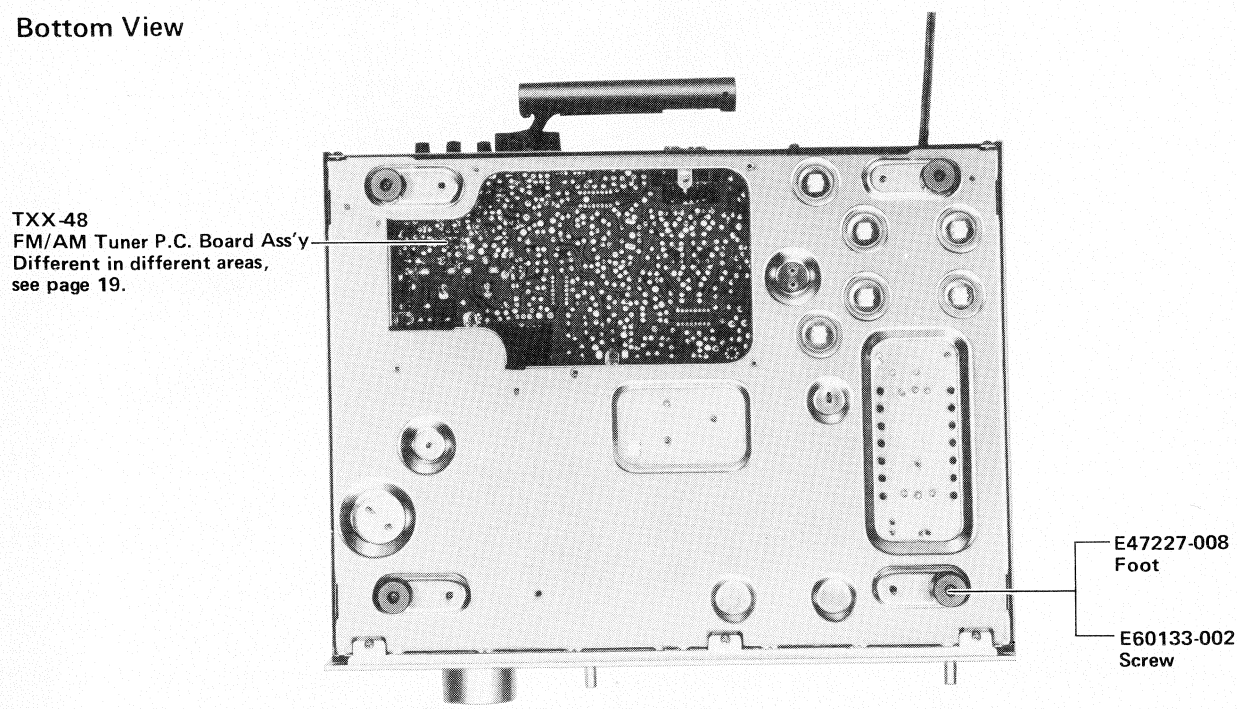


Fig. 5

NOTE ⚠ : SAFETY PARTS

4. Dial Stringing and Tuning Knob Fitting Procedures

4-(1) Dial Stringing

Turn the tuning capacitor so that its plates are completely closed (maximum capacity) first. Then start dial stringing following the diagram below.

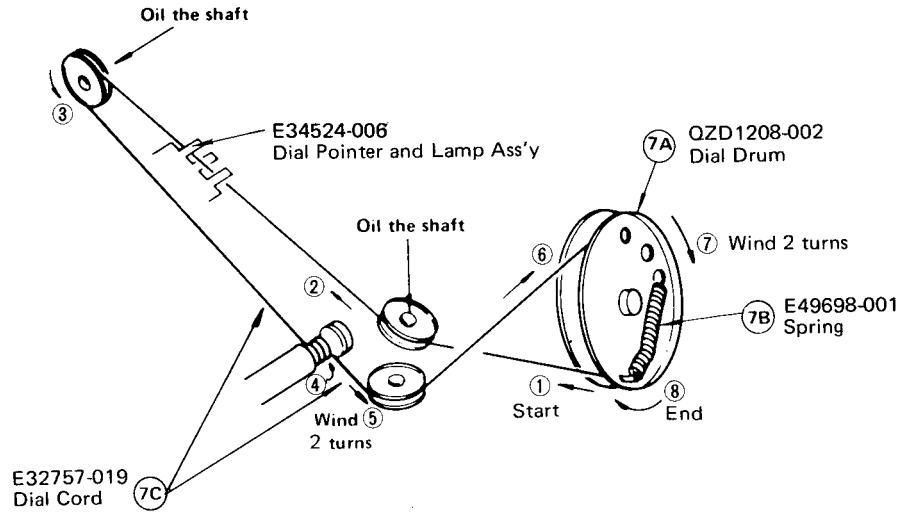


Fig. 6

Note: When replacing the circuit boards, fix the dial drum in the recess of the chassis base so that the string will not come loose.

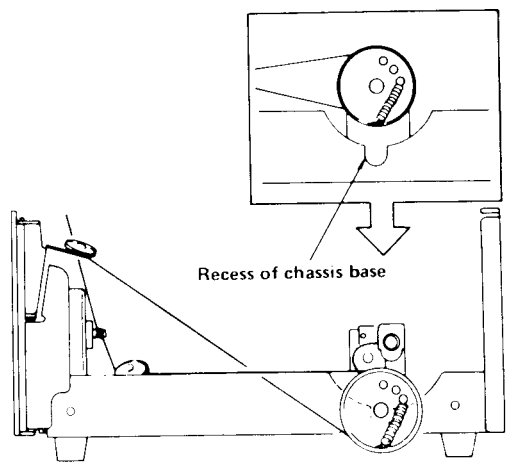


Fig. 7

4-(2) Tuning Knob Fitting

The tuning knob used in this set is designed to have a reduced eccentricity. Torque transmission is through knurled ring engagement and the center of rotation is maintained by the three ridges clamping the shaft. To fit the tuning knob, first press in lightly by turning lightly to permit the ridges to fall into the recesses in the shaft. When you feel that the shaft and knob are completely engaged, press the knob straight in the direction of the axis of the shaft. Be careful not to injure the ridges by pressing the knob in forcibly, as this will increase the eccentricity of the knob.

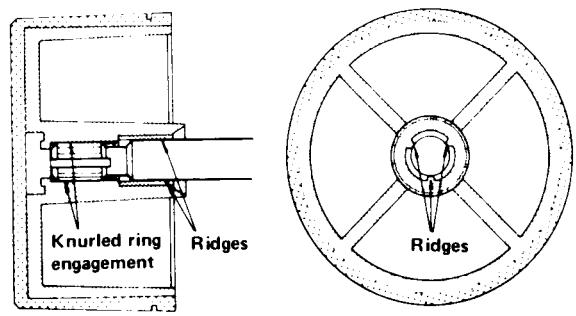


Fig. 8

5. Exploded View and Part Numbers

5-(1) Front Panel

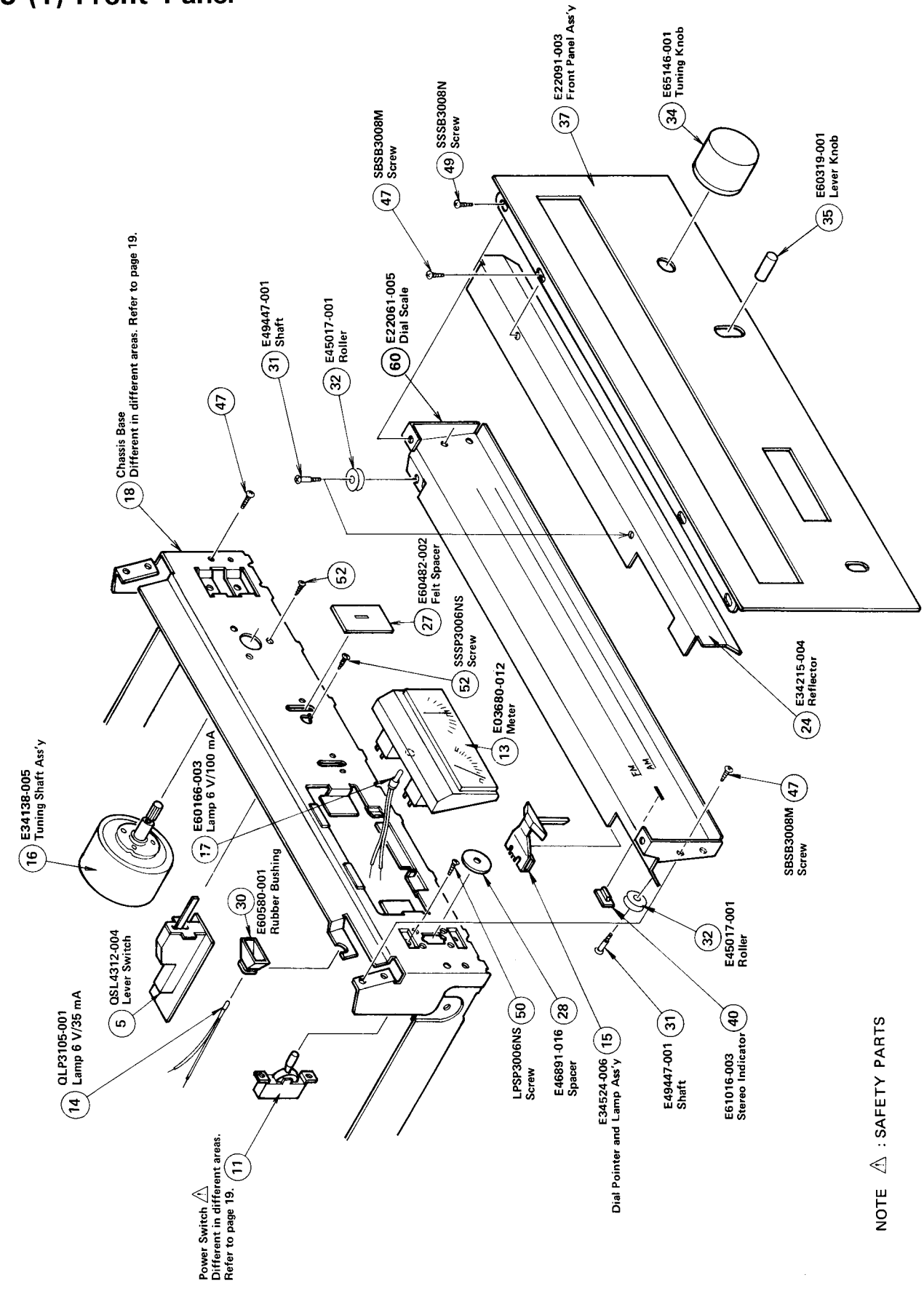

(37) E22091-003 Front Panel Ass'y
(34) E65146-001 Tuning Knob
(49) SSSB3008N Screw
(47) SBSB3008M Screw
(35) E60319-001 Lever Knob
(60) E22061-005 Dial Scale
(31) E49447-001 Shaft
(32) E45017-001 Roller
(18) Chassis Base Different in different areas. Refer to page 19.
(47)
(52)
(27) E60482-002 Felt Spacer
(52) SSSP3006NS Screw
(13) E03680-012 Meter
(24) E34215-004 Reflector
(16) E34138-005 Tuning Shaft Ass'y
(17) E60166-003 Lamp 6 V/100 mA
(30) E60580-001 Rubber Bushing
(47) SBSB3008M Screw
(32) E45017-001 Roller
(5) QSL4312-004 Lever Switch
(14) QLP3105-001 Lamp 6 V/35 mA
(50) LPSP3006NS Screw
(28) E46891-016 Spacer
(15) E34524-006 Dial Pointer and Lamp Ass'y
(31) E49447-001 Shaft
(40) E61016-003 Stereo Indicator
(11) Power Switch ⚠ Different in different areas. Refer to page 19.
FM
AM
NOTE ⚠ : SAFETY PARTS

Fig. 9

5-(2) Rear Panel

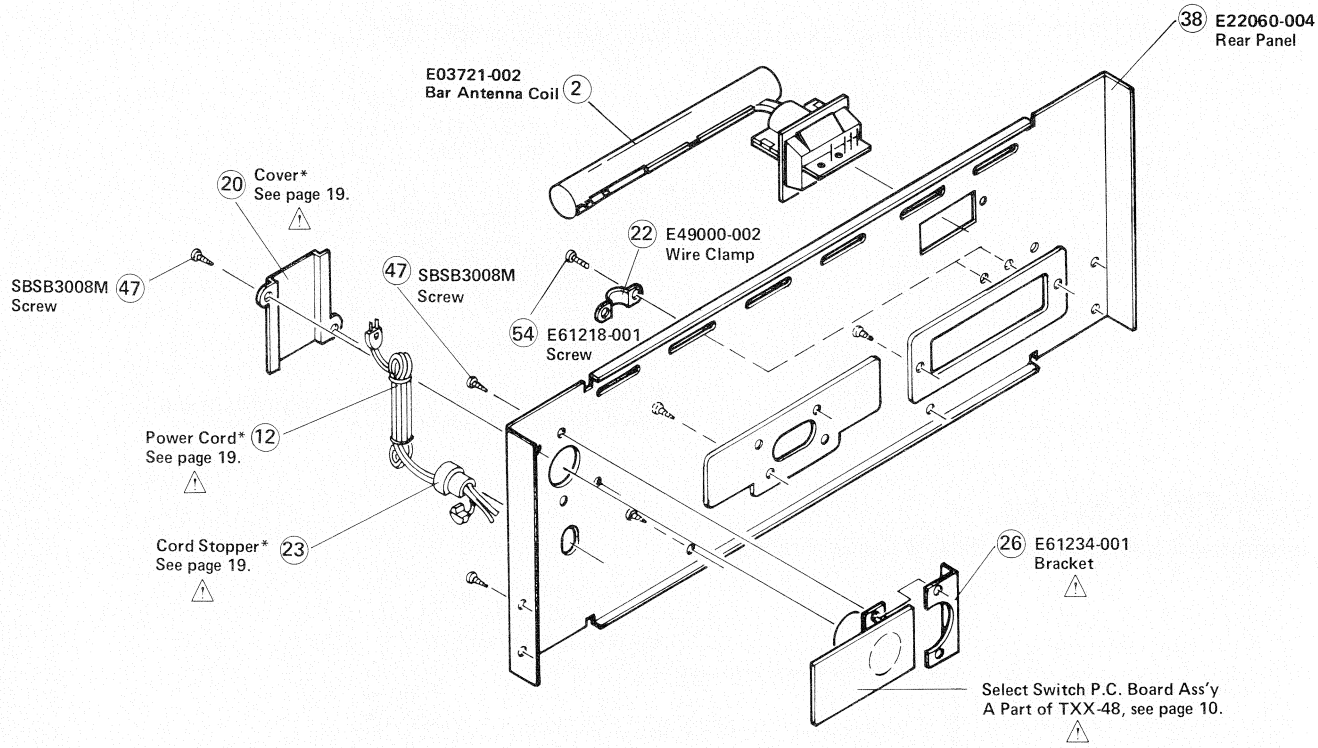
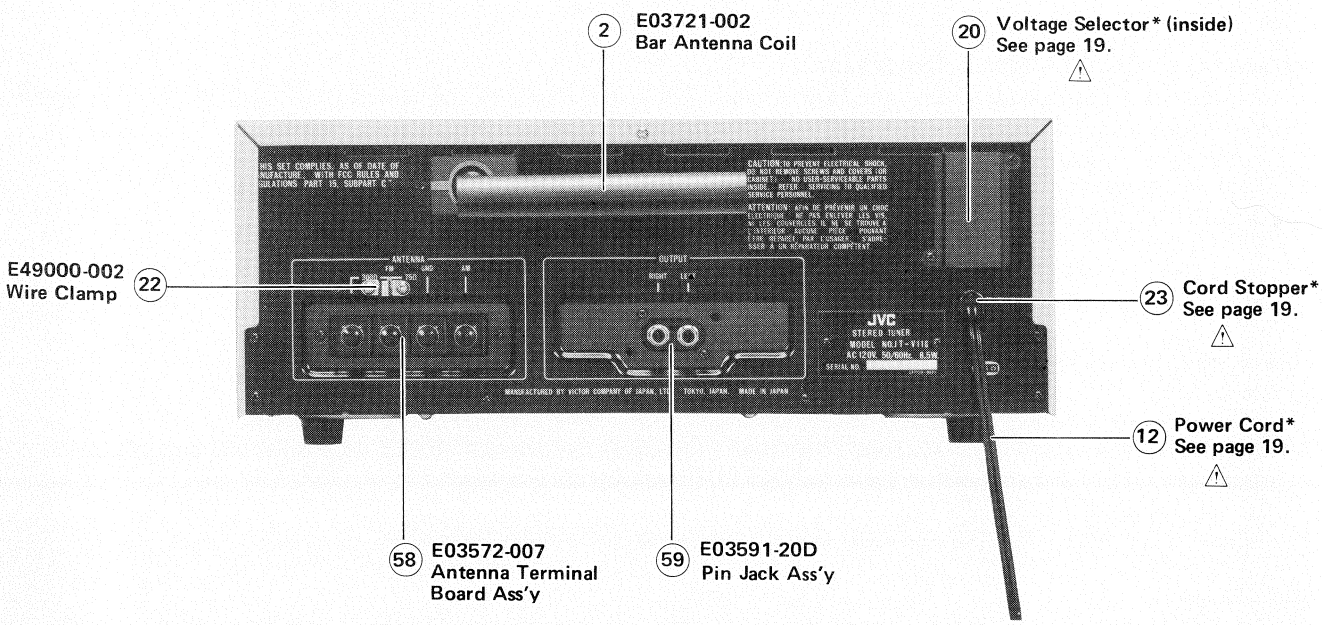


Fig. 10



NOTE ⚠ : SAFETY PARTS

Fig. 11

*** Different in different areas.**

6. FM/AM Tuner Alignment Procedure

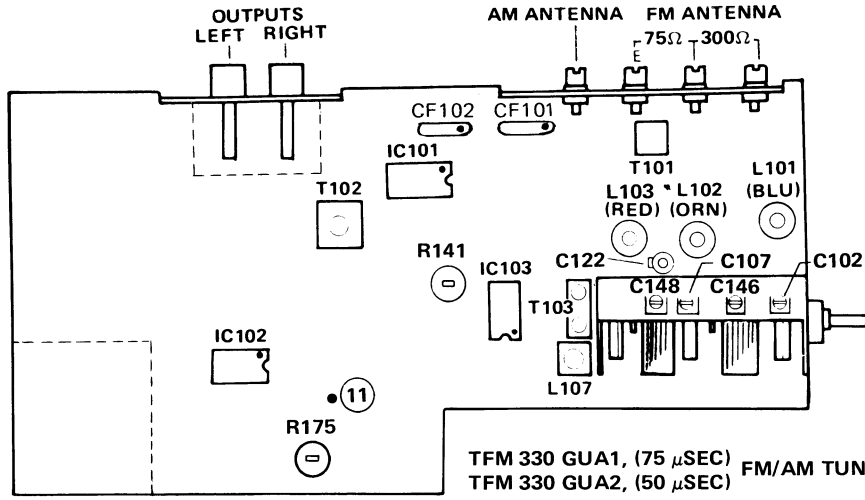


Fig. 12

6-(1) FM Section

Alignment Locations for FM/AM Tuner Section

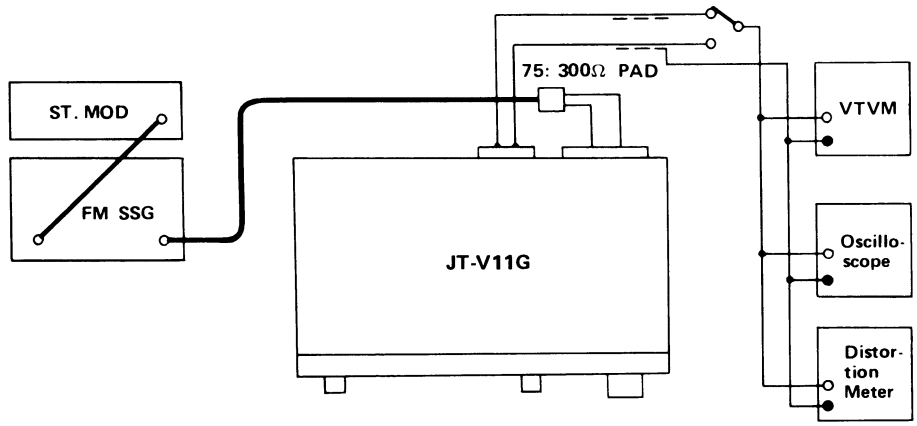


Fig. 13

Discriminator, Center Meter & Distortion

1. Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the OUTPUT Jacks on the rear panel.
3. Tune to a frequency where there is no broadcasting.
4. Adjust the bottom core of T102 so that the center meter indicates "0" (zero).
5. Set the generator to 98 MHz.
6. Set the dial pointer to 98 MHz.
7. Adjust the top core of T102 so that the distortion is minimized at a value less than 0.4 %.

Tracking and Sensitivity

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF generator to 88 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μV.
3. Connect a VTVM and an oscilloscope to the OUTPUT Jacks on the rear panel.
4. Set the dial pointer to 88 MHz.
5. Adjust three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequnecy

6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μV.
7. Set the dial pointer to 108 MHz.
8. Adjust the FM trimmers C122, C107 and C102 in the tuning gang to maximize the output.
9. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

Muting Level

1. Connect a VTVM and an oscilloscope to the OUTPUT Jacks.
2. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 10 μV.
3. Turn R141 clockwise and remember the point at which the muting ceases operating.
4. Turn R141 counterclockwise slightly so that the output level drops by 1 dB.
5. Attenuate the output of the RF generator to 2 dB from 10 μV of Step 2 and check that the muting is still operating.

Multiplex

1. Set a stereo signal generator as follows: Modulation frequency 1,000 Hz, Deviation pilot 7.5 kHz, Main and Sub. 67.5 kHz. Connect its output to an RF generator.
2. Connect the RF generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, an oscilloscope and a distortion meter to the OUTPUT Jacks.
4. Set the RF generator to 98 MHz and an output of 1 mV.
5. Set the dial pointer to 98 MHz.
6. Connect a frequency counter to Tab No. 11.
7. Switch off the pilot signal of the stereo modulator.
8. Adjust R175 so that the frequency counter indicates 76 kHz (± 0.1 kHz).
9. If no frequency counter is available, there is another simplified method. Tune exactly to a stereo broadcast. Then turn R175 in either direction to find the range in which the stereo indicator lights up and fix R175 at the center of the range.

Note: Keep the MODE selector switch at AUTO position during this adjustment procedure of stereo separation.

6-(2) AM Section

Tracking and Sensitivity

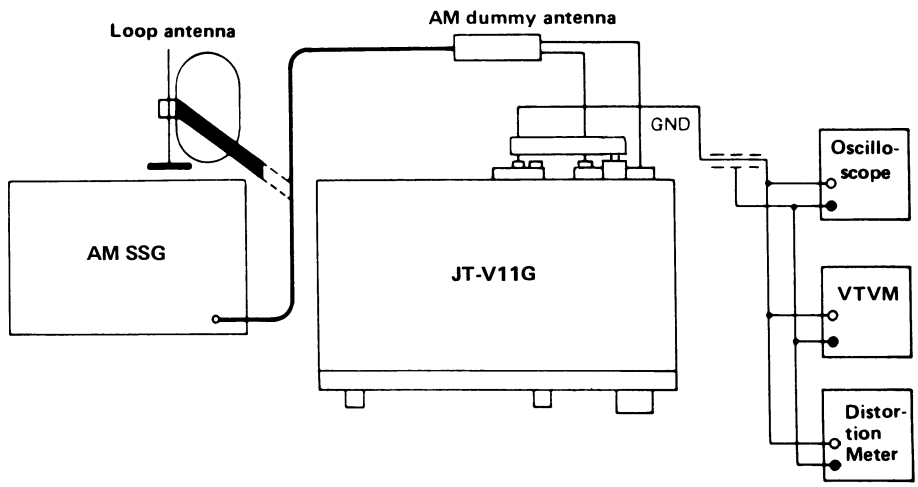


Fig. 14

Low Frequency

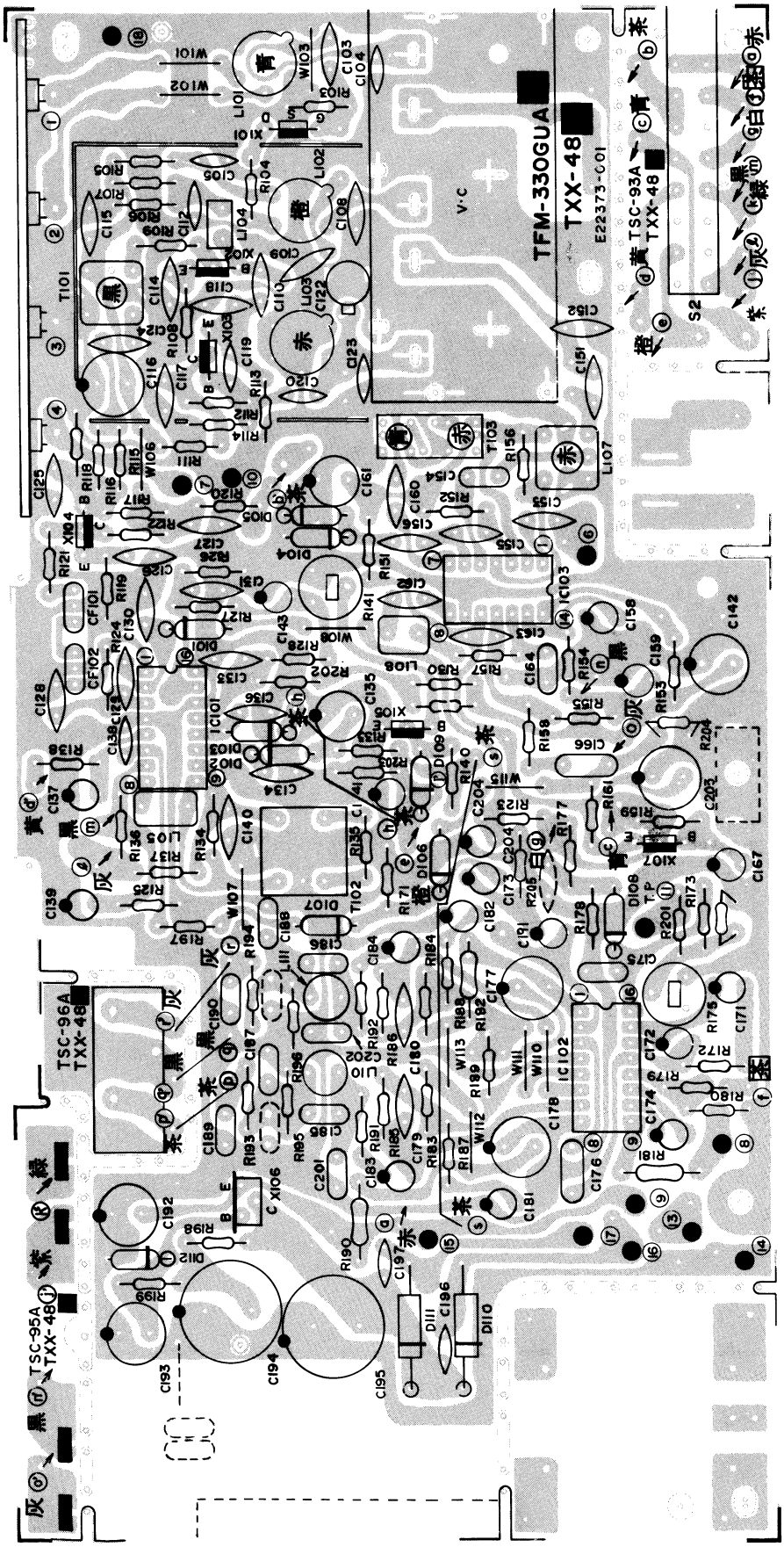
1. Connect an RF generator to the antenna terminals on the rear panel, set this to 600 kHz with 30 % modulation at 400 Hz.
2. Connect an AC VTVM and an oscilloscope to OUTPUT Jacks on the rear panel.
3. Set the dial pointer to 600 kHz.
4. Adjust Osc. transformer L107 and the ferrite bar antenna to maximize the output signal.

High Frequency

5. Set the RF generator to 1,400 kHz with 30 % modulation at 400 Hz.
6. Set the dial pointer to 1,400 kHz.
7. Adjust the trimmers C148 and C146 in the AM tuning gang so that the output signal is maximized.
8. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

7. Printed Circuit Board Ass'y and Parts List

7-(1) TXX-48E (F or G) FM/AM Tuner and Switch P.C. Board Ass'y



The number of TXX-48 P.C. Board Ass'y varies according to the area employed.

TXX-48E	U.S.A., Canada, U.S. Military Market and Other Countries.

TXX-48F	Australia and Europe

TXX-48G	U.K.

Fig. 15

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X101	2SK55D	IDSS:14 mA	NF:3.5 dB	F.E.T.	Hitachi
X102	2SC535 (B,C)	100 mW	700 MHz	Silicon	"
X103	2SC1342 (B,C)	"	250 MHz	"	"
X104	2SC461 (C)	200 mW	230 MHz	"	"
X105	2SC458 (C)	250 mW	"	"	"
X106	2SD325 (D,E)	10 W	8 MHz	"	Sanyo
X107	2SC458 (C)	250 mW	230 MHz	"	Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC101	HA1137W		FM IF Amp. & DET	Hitachi
IC102	HA1196		MPX	"
IC103	HA1151		AM RF IF	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D101	1S2473		Silicon	Toyo Dengu
D102	1S2473		"	"
D103	1S188FM		Germanium	Sanyo
D104	1S2473		Silicon	Toyo Dengu
D105	1S2473		"	"
D106	1S2473		Silicon	Toyo Dengu
D107	1S2473		"	"
D108	1S2473		"	"
D109	1S2473		"	"
D110	SIB01-02		"	Kyodo Denki
D111	SIB01-02		"	"
D112	WZ-130		Zener Diode 13 V	JRC
D113	1S2473		Silicon	Toyo Dengu

Coils and Transformers

Item No.	Part Number	Rating	Description
L101	E03477-024		RF Coil (Blue)
L102	E03477-35		" (Orange)
L103	E03477-026		" (Red)
L104	E03522-2R2KY	2.2 μH	Choke Coil
L105	E03522-220K	22 μH	"
L107	E03079-29		AM OSC Coil (Red)
L108	E03522-391KY	390 μH	Choke Coil
L110	E03566-103		"
L111	E03566-103		"
T101	E03078-39		FM I.F. Transformer
T102	E03134-020		FM DET. Transformer
T103	E03613-002		AM I.F. Transformer

Capacitors

Item No.	Part Number	Rating		Description
C103	QCS31HJ-101Z	100 pF	50 V	Ceramic
C104	QCS31HJ-180Z	18 pF	"	"
C105	QCF31HP-103Z	0.01 μF	"	"
C108	QCS31HJ-180Z	18 pF	"	"
C109	QCS11HJ-100	10 pF	"	"
C110	QCS31HJ-4R0	4 pF	"	"
C112	QCS31HJ-101Z	100 pF	"	"
C114	QCF31HP-103Z	0.01 μF	"	"
C115	QCF31HP-103Z	"	"	"
C116	QEW51CA-107	100 μF	16 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C117	QCF31HP-103Z	0.01 μF	50 V	Ceramic
C118	QCT25CH-100	10 pF	"	"
C119	QCT25CH-220Z	22 pF	"	"
C120	QCT25CH-7R0Z	7 pF	"	"
C122	QAT3001-005	10 pF	"	Trimmer
C123	QCT25RH-220Z	22 pF	"	Ceramic
C124	QCF31HP-223Z	0.022 μF	"	"
C125	QCS31HJ-470Z	47 pF	"	"
C126	QCF31HP-223Z	0.022 μF	"	"
C127	QCF31HP-223Z	"	"	"
C128	QCC31EM-473Z	0.047 μF	25 V	Ceramic
C129	QCF31HP-223	0.022 μF	50 V	"
C130	QCC31EM-473Z	0.047 μF	25 V	"
C131	QCF31HP-223	0.022 μF	50 V	"
C133	QCF31HP-223Z	"	"	"
C134	QCF31HP-223Z	"	"	"
C135	QEW61CA-476Z	47 μF	16 V	Electrolytic
C136	QCF31HP-223Z	0.022 μF	50 V	Ceramic
C137	QEW61EA-475Z	4.7 μF	25 V	Electrolytic
C138	QCS31HJ-820Z	82 pF	50 V	Ceramic
C139	QEW61HA-105Z	1 μF	"	Electrolytic
C140	QCF31HP-223Z	0.022 μF	"	Ceramic
C141	QEW61HA-225Z	2.2μF	50V	Electrolytic
C142	QEW50JA-227	220 μF	6.3 V	"
C143	QEW61HA-474Z	0.47 μF	50 V	Ceramic
C151	QCS31HJ-331ZU	330 pF	"	"
C152	QCS31HJ-150Z	15 pF	"	"
C153	QCF31HP-223Z	0.022 μF	"	"
C154	QFM31HK-103Z	0.01 μF	"	Mylar
C155	QCF31HP-223Z	0.022 μF	"	Ceramic
C156	QCF31HP-223	0.022 μF	"	"
C158	QEW61HA-105Z	1 μF	"	Electrolytic
C159	QEW61EA-475Z	4.7 μF	25 V	"
C160	QCF31HP-223Z	0.022 μF	50 V	Ceramic
C161	QEW61CA-476Z	47 μF	16 V	Electrolytic
C162	QCS31HJ-331Z	330 pF	50 V	Ceramic
C163	QCF31HP-223Z	0.022 μF	"	"
C164	QCY31HK-102Z	0.001 μF	"	"
C166	QFM31HK-333	0.033 μF	"	"
C167	QEW51CA-107	100 μF	16 V	Electrolytic
C171	QEB51EM-335	3.3 μF	25 V	L.L.C. Electrolytic
C172	QEB51HM-225	2.2μF	25V	"
C173	QEW51EA-475	4.7 μF	25 V	Electrolytic
C174	QEB51HM-224	0.22 μF	50 V	L.L.C. Electrolytic
C175	QFP31HJ-361	360 pF	"	P.P Copacpor
C176	QFM31HK-473	0.047 μF	"	Mylar
C177	QEW51CA-227	100 μF	16 V	Electrolytic
C178	QEW51CA-227	100 μF	"	"
C179	QFM31HJ-122Z	1200 pF	50 V	Mylar
C180	QFM31HJ-122Z	"	"	"
C181	QEW61CA-106Z	10 μF	16 V	Electrolytic
C182	QEW61CA-106Z	"	"	"
C183	QEB51HM-474	0.47 μF	50 V	L.L.C. Electrolytic
C184	QEB51HM-474	"	"	"
C185	QFM31HJ-682Z	6800 pF	"	Mylar
C186	QFM31HJ-682Z	"	"	"
C187	QFM31HJ-682Z	"	"	"
C189	QFM31HJ-272Z	2700 pF	"	"
C190	QFM31HJ-272Z	"	"	"
C191	QEW61HA-225Z	2.2μF	50V	Electrolytic
C192	QEW51CA-107	100 μF	16 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C193	QEW51CA-107	100 μF	16 V	Electrolytic
C194	QEW51EA-477	470 μF	25 V	"
C195	QEW51VA-108	1000 μF	35 V	"
C196	QCF31HP-103Z	0.01 μF	50 V	Ceramic
C197	QCF31HP-103Z	"	"	"
C201	QFM31HJ-103Z	"	"	Mylar
C202	QFM31HJ-103Z	"	"	"
C203	QEW51CA-107	100 μF	16 V	Electrolytic
C204	QEW51HA-474Z	0.47 μF	50 V	"

Resistors

Item No.	Part Number	Rating		Description
R103	QRD141J-105S	1 MΩ	1/4 W	Carbon
R104	QRD141J-470S	47 Ω	"	"
R105	QRD141J-101S	100 Ω	"	"
R106	QRD141J-472S	4.7 kΩ	"	"
R107	QRD141J-223S	22 kΩ	"	"
R108	QRD141J-102S	1 kΩ	"	"
R109	QRD141J-101S	100 Ω	"	"
R111	QRD141J-561S	560 Ω	"	"
R112	QRD141J-103S	10 kΩ	"	"
R113	QRD141J-222S	2.2 kΩ	"	"
R114	QRD141J-103S	10 kΩ	"	"
R115	QRD141J-221S	220 Ω	"	"
R116	QRD141J-102S	1 kΩ	"	"
R117	QRD141J-153S	15 kΩ	"	"
R118	QRD141J-472S	4.7 kΩ	"	"
R119	QRD141J-102S	1 kΩ	"	"
R120	QRD141J-121S	120 Ω	"	"
R121	QRD141J-271S	270 Ω	"	"
R122	QRD141J-331S	330 Ω	"	"
R123	QRD141J-334S	330 kΩ	"	"
R124	QRD141J-331S	330 Ω	"	"
R125	QRD141J-154S	150 kΩ	"	"
R126	QRD141J-104S	100 kΩ	"	"
R127	QRD141J-104S	"	"	"
R128	QRD141J-103S	10 kΩ	"	"
R130	QRD141J-153S	15 kΩ	"	"
R133	QRD126J-560	56 Ω	1/2 W	" ⚠
R134	QRD141J-562S	5.6 kΩ	1/4 W	"
R135	QRD141J-362S	3.6 kΩ	"	"
R136	QRD141J-221S	220 Ω	"	"
R137	QRD141J-682S	6.8 kΩ	"	"
R138	QRD141J-123S	12 kΩ	"	"
R140	QRD141J-123S	"	"	"
R141	QVP4A0B-473	47 kΩ		Variable
R151	QRD141J-151S	150 Ω	1/4 W	Carbon
R152	QRD141J-472S	4.7 kΩ	"	"
R153	QRD141J-152S	1.5 kΩ	"	"
R154	QRD141J-562S	5.6 kΩ	"	"
R155	QRD141J-153S	15 kΩ	"	"
R157	QRD141J-331S	330 Ω	"	"
R158	QRD141J-273S	27 kΩ	"	"
R159	QRD141J-103S	10 kΩ	"	"
R161	QRD141J-473S	47 kΩ	"	"
R171	QRD141J-104S	100 kΩ	"	"
R172	QRD141J-102S	1 kΩ	"	"
R173	QRD141J-223S	22 kΩ	"	"
R175	QVP4A0B-103	10 kΩ		Variable
R177	QRD141J-103S	10 kΩ	1/4 W	Carbon

NOTE ⚠ : SAFETY PARTS

Resistors

Item No.	Part Number	Rating		Description
R178	QRD141J-103S	10 kΩ	"	"
R179	QRD141J-104S	100 kΩ	"	"
R180	QRD141J-333S	33 kΩ	1/4 W	Carbon
R181	QRD126J-221	220 Ω	1/2W	Uninflammable Carbon ⚠
R182	QRD126J-220	22 Ω	1/2 W	" ⚠
R183	QRD141J-303S	30 kΩ	1/4 W	Carbon
R184	QRD141J-303S	"	"	"
R185	QRD141J-473S	47 kΩ	"	"
R186	QRD141J-473S	"	"	"
R187	QRD141J-822S	8.2kΩ	"	"
R188	QRD141J-822S	"	"	"
R189	QRD141J-124S	120kΩ	"	"
R190	QRD126J-100	10 Ω	1/2 W	Uninflammable Carbon ⚠
R191	QRD141J-152S	1.5 kΩ	1/4 W	Carbon
R192	QRD141J-152S	"	"	"
R193	QRD141J-222S	2.2 kΩ	"	"
R194	QRD141J-222S	"	"	"
R195	QRD141J-473S	47 kΩ	"	"
R196	QRD141J-473S	"	"	"
R197	QRD141J-103S	10kΩ	"	"
R198	QRD141J-102s	1 kΩ	"	"
R199	QRD141J-122S	1.2 kΩ	"	"
R201	QRD141J-104S	100 kΩ	"	"
R203	QRD141J-473S	47kΩ	"	"
R204	QRD141J-563	56kΩ	"	"
R205	QRD141J-103S	10 kΩ	"	"

Others

Item No.	Part Numbei	Rating	Description
CF101, 102	E03357-006		Ceramic Filter
	E03591-20D		Pin Jack
S2	QSL4312-004		Lever Switch
	E03572-007C		ANT. Terminal

De-emphasis Network

Category / Area	P.C. Board Ass'y	De-emphasis	R156	C803	C187 C188	C189 C190	C179 C180
U.S.A., Canada U.S. Military Market and Other Areas	TXX-48E	75 μsec	Not used	100 μF/35 V	6800pF	2700pF	1200pF
Australia and Europe	TXX-48F	50 μsec	560 Ω	220 μF/35 V	8200pF	6800 pF	470pF
U.K.	TXX-48G	50 μsec	Not used	220 μF/35 V	8200pF	6800 pF	470pF

NOTE ⚠ : SAFETY PARTS

7-(2) TXX-59A (BBS, C, or D) Power Supply and Voltage Select Switch P.C.Board Ass'y ⚠

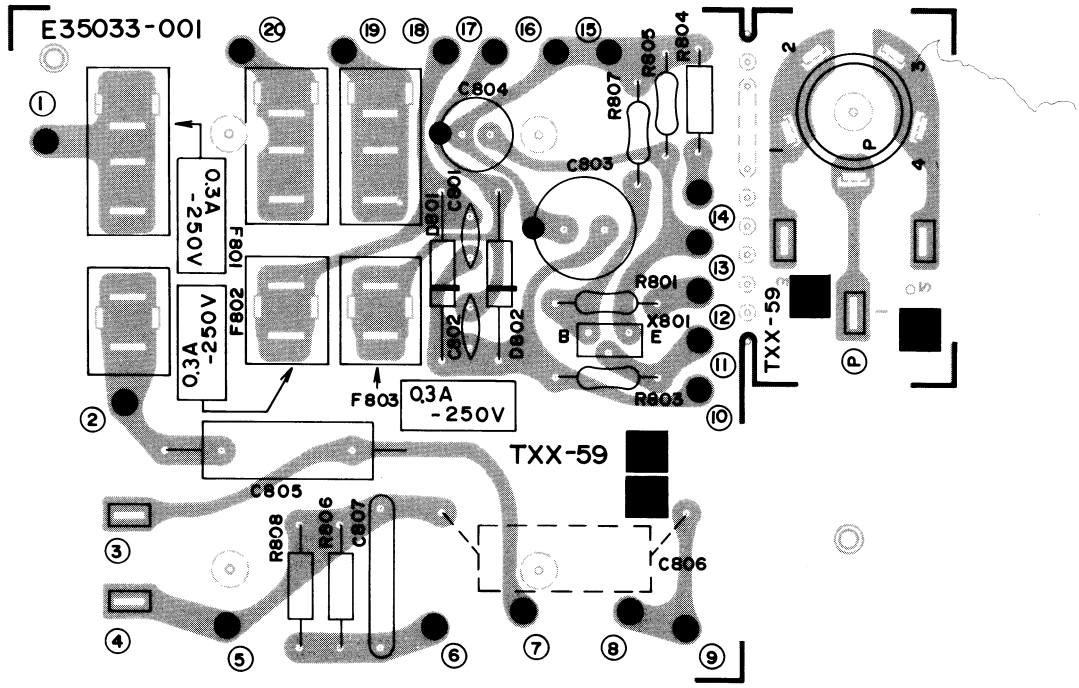


Fig. 16

Transistor

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X801	2SD325 (E)	10 W	8 MHz	Silicon	Sanyo

Diodes

Item No.	Part Number	Rating	Description	Maker
D801	SIB01-02		Silicon	Kyodo Denki
D802	SIB01-02		〃	〃

Capacitors

Item No.	Part Number	Rating		Description
C801	QCF31HP-103	0.01 μF	50 V	Ceramic
C802	QCF31HP-103	〃	〃	〃
C803	QEW51VA-107	100 μF	35 V	Electrolytic
C804	QEW51AA-107	〃	10 V	〃
*C805	See page 19.	0.01 μF	1000 V	Metallized Mylar ⚠

Resistors

Item No.	Part Number	Rating		Description
R801	QRD141J-182	1.8 kΩ	1/4 W	Carbon
R803	QRD141J-332	3.3 kΩ	〃	〃
R804	QRD126J-100	10 Ω	1/2 W	Uninflammable Carbon
R805	QRD141J-332	3.3 kΩ	1/4 W	Carbon
*R806	See page 19.	4.7 MΩ	1/2 W	Composition ⚠
R807	QRD141J-272	2.7 kΩ	1/4 W	Carbon
*R808	See page 19.	4.7 MΩ	1/2 W	Composition ⚠

Others

Item No.	Part Number	Rating		Description
*F801	See page 19.	0.3 A	250 V	Fuse (Primary) ⚠
*F802	See page 19.	0.5 A	〃	Fuse (Secondary) ⚠
*F803	See page 19.	〃	〃	Fuse (〃) ⚠
S4	QSR0074-001	2 A	250 V	Line Voltage Selector ⚠

NOTE ⚠ : SAFETY PARTS

*Different in different areas. Refer to page 19.

8. Packing Materials

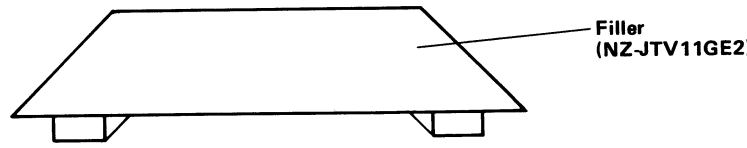


Fig. 17

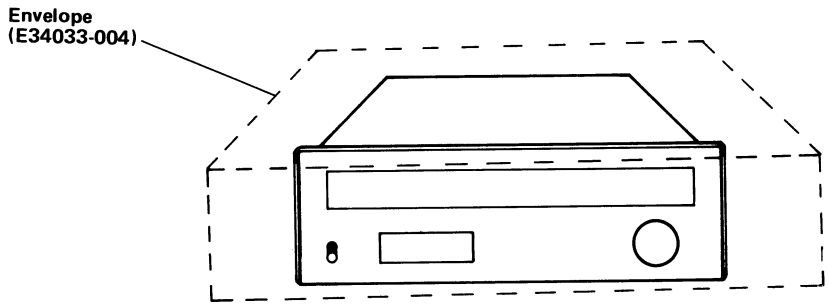
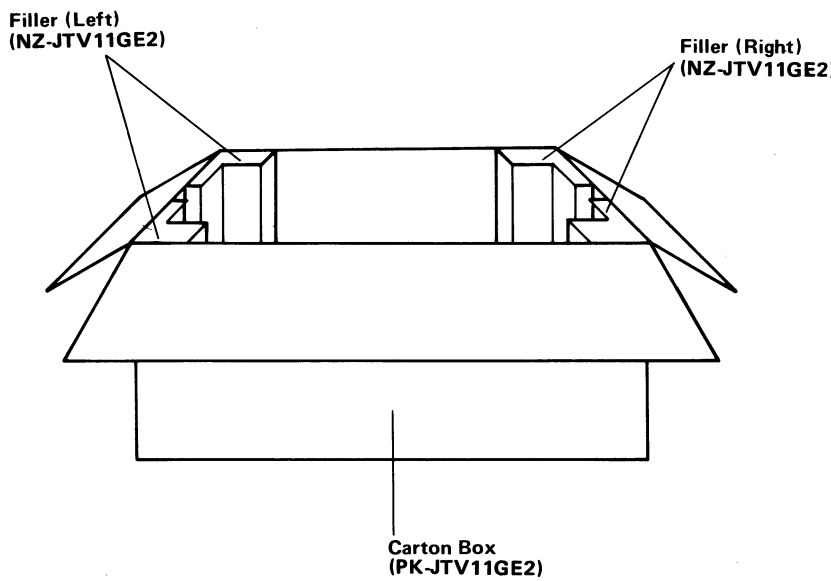


Fig. 18

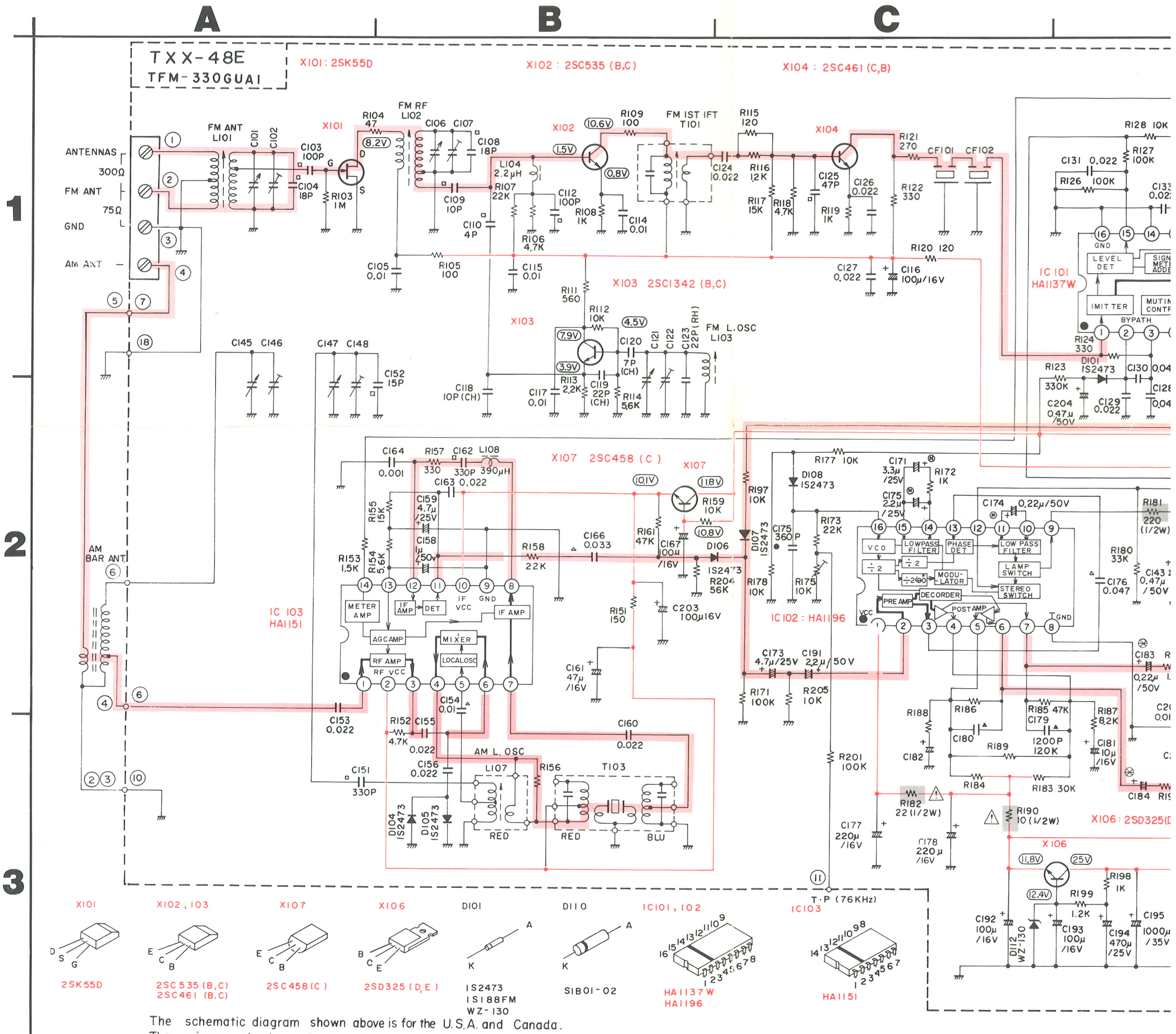


9. Accessories List

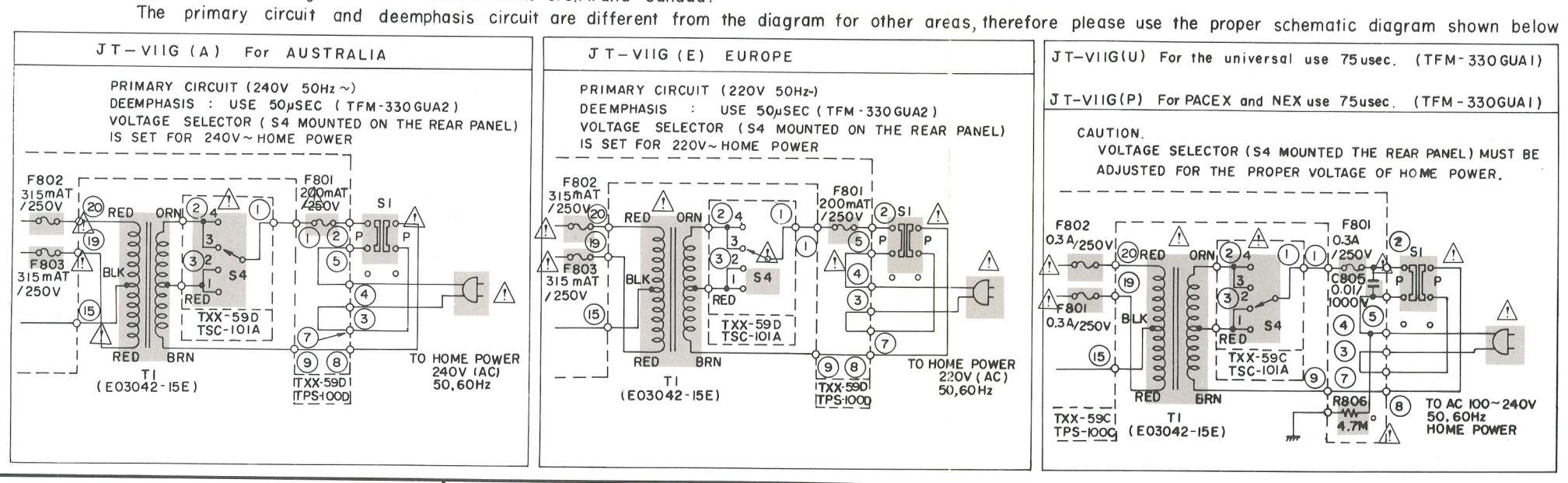
Part Number	Description	Q'ty
*E30580-660A	Instruction Book (for U.S.A. & Canada only)	1
E64207-002	Envelope	1
See page 48.	Warranty Card	1
E03614-002	FM Antenna	1
E03479-001	Signal Cord	1

*Different in different areas. Refer to page 19.

10. JT-V11G Schematic Diagram (for U.S.A and Canada)



The schematic diagram shown above is for the U.S.A. and Canada.
The primary circuit and deemphasis circuit are different from the diagram for other areas, therefore please use the proper schematic diagram shown below


JT-V11G (A) For AUSTRALIA
PRIMARY CIRCUIT (240V 50Hz ~)
DEEMPHASIS : USE 50μSEC (TFM-330GUA2)
VOLTAGE SELECTOR (S4 MOUNTED ON THE REAR PANEL)
IS SET FOR 240V~ HOME POWER
TO HOME POWER 240V (AC) 50,60Hz
JT-V11G (E) EUROPE
PRIMARY CIRCUIT (220V 50Hz~)
DEEMPHASIS : USE 50μSEC (TFM-330GUA2)
VOLTAGE SELECTOR (S4 MOUNTED ON THE REAR PANEL)
IS SET FOR 220V~ HOME POWER
TO HOME POWER 220V (AC) 50,60Hz
JT-V11G(U) For the universal use 75usec. (TFM-330GUAI)
JT-V11G(P) For PACEX and NEX use 75usec. (TFM-330GUAI)
CAUTION.
VOLTAGE SELECTOR (S4 MOUNTED THE REAR PANEL) MUST BE ADJUSTED FOR THE PROPER VOLTAGE OF HOME POWER.
TO AC 100~240V 50,60Hz HOME POWER

Printed Circuit Board Ass'y Locations

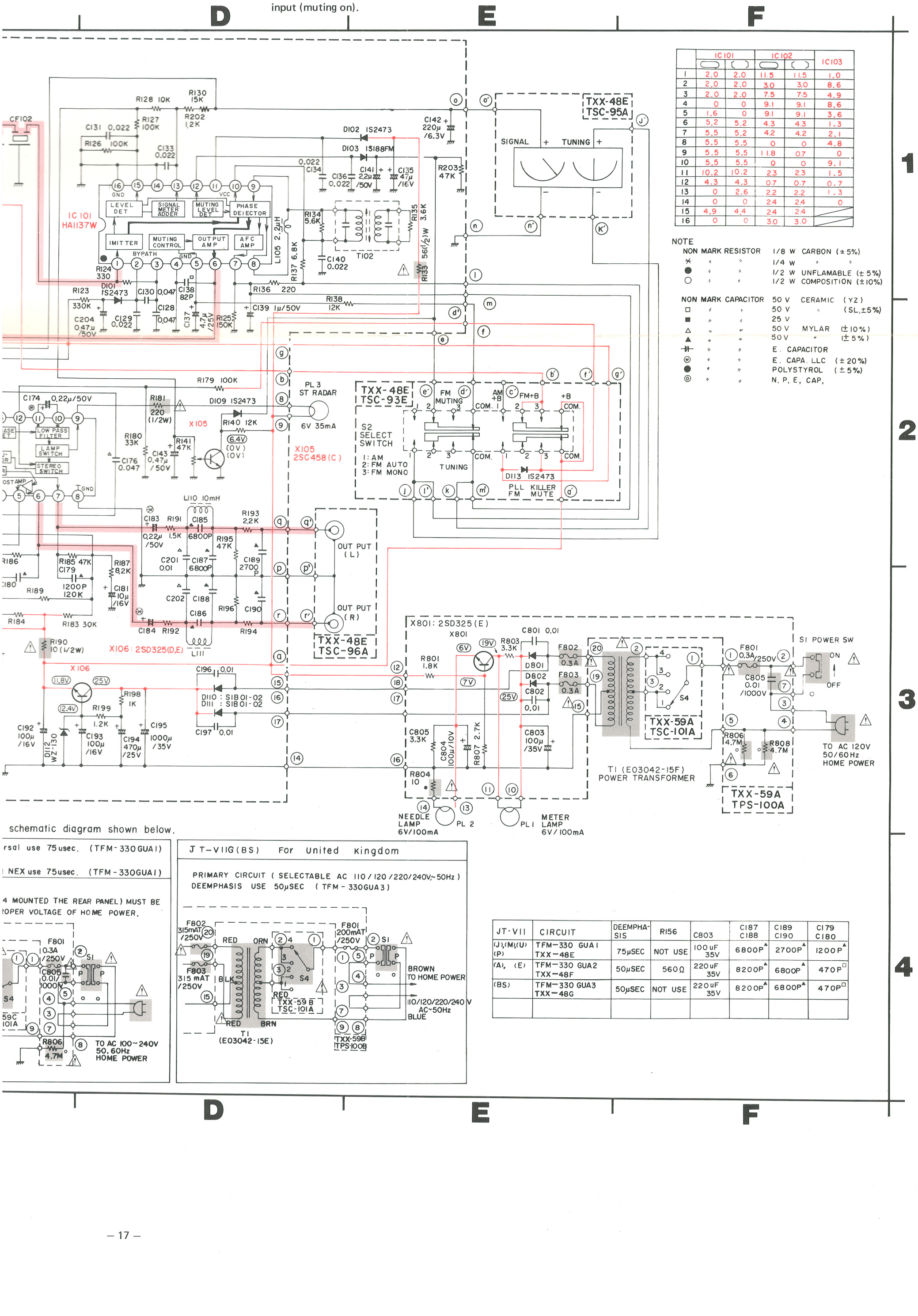
P.C. Board Ass'y	Description	Page
TXX-48E (F or G)	FM/AM Tuner and Switch P.C. Board Ass'y	10
TXX-59A (B or BBS)	Power Supply and Voltage Select Switch P.C. Board Ass'y	15

Note

1. —— indicates positive B power supply.
2. ▒▒ indicates signal path.
3. When replacing the parts in the darkened areas (▒▒) and those parts marked with ⚠, be sure to use the designated parts to ensure safety.
4. This is the standard circuit diagram. The design and constants are subject to change without notice.

Note

1. For all voltage measurements line voltage = 120 V AC
2. ( ) indicats DC voltage measured with DC VTVM to chassis with no signal input (muting on).
3. ( ) indicates DC voltage with I mV RF input.
4. [ ] indicates DC voltage with 1 mV RF input.
   75 kHz deviation in stereo mode



	IC 101		IC 102		IC103
	⬭	( )	⬭	( )	
1	2.0	2.0	11.5	11.5	1.0
2	2.0	2.0	3.0	3.0	8.6
3	2.0	2.0	7.5	7.5	4.9
4	0	0	9.1	9.1	8.6
5	1.6	0	9.1	9.1	3.6
6	5.2	5.2	4.3	4.3	1.3
7	5.5	5.2	4.2	4.2	2.1
8	5.5	5.5	0	0	4.8
9	5.5	5.5	11.8	0.7	0
10	5.5	5.5	0	0	9.1
11	10.2	10.2	2.3	2.3	1.5
12	4.3	4.3	0.7	0.7	0.7
13	0	2.6	2.2	2.2	1.3
14	0	0	2.4	2.4	0
15	4.9	4.4	2.4	2.4	
16	0	0	3.0	3.0	

NOTE

NON MARK	RESISTOR	1/8 W	CARBON (±5%)
✳	〃	1/4 W	〃 〃
●	〃	1/2 W	UNFLAMABLE (±5%)
○	〃	1/2 W	COMPOSITION (±10%)
NON MARK	CAPACITOR	50 V	CERAMIC (YZ)
□	〃	50 V	〃 (SL, ±5%)
■	〃	25 V	
△	〃	50 V	MYLAR (±10%)
▲	〃	50 V	〃 (±5%)
⊣⊢	〃		E. CAPACITOR
⊛	〃		E. CAPA. LLC (±20%)
●	〃		POLYSTYROL (±5%)
◎	〃		N, P, E, CAP,

schematic diagram shown below.

rsal use 75usec. (TFM-330GUA1)

NEX use 75usec. (TFM-330GUA1)

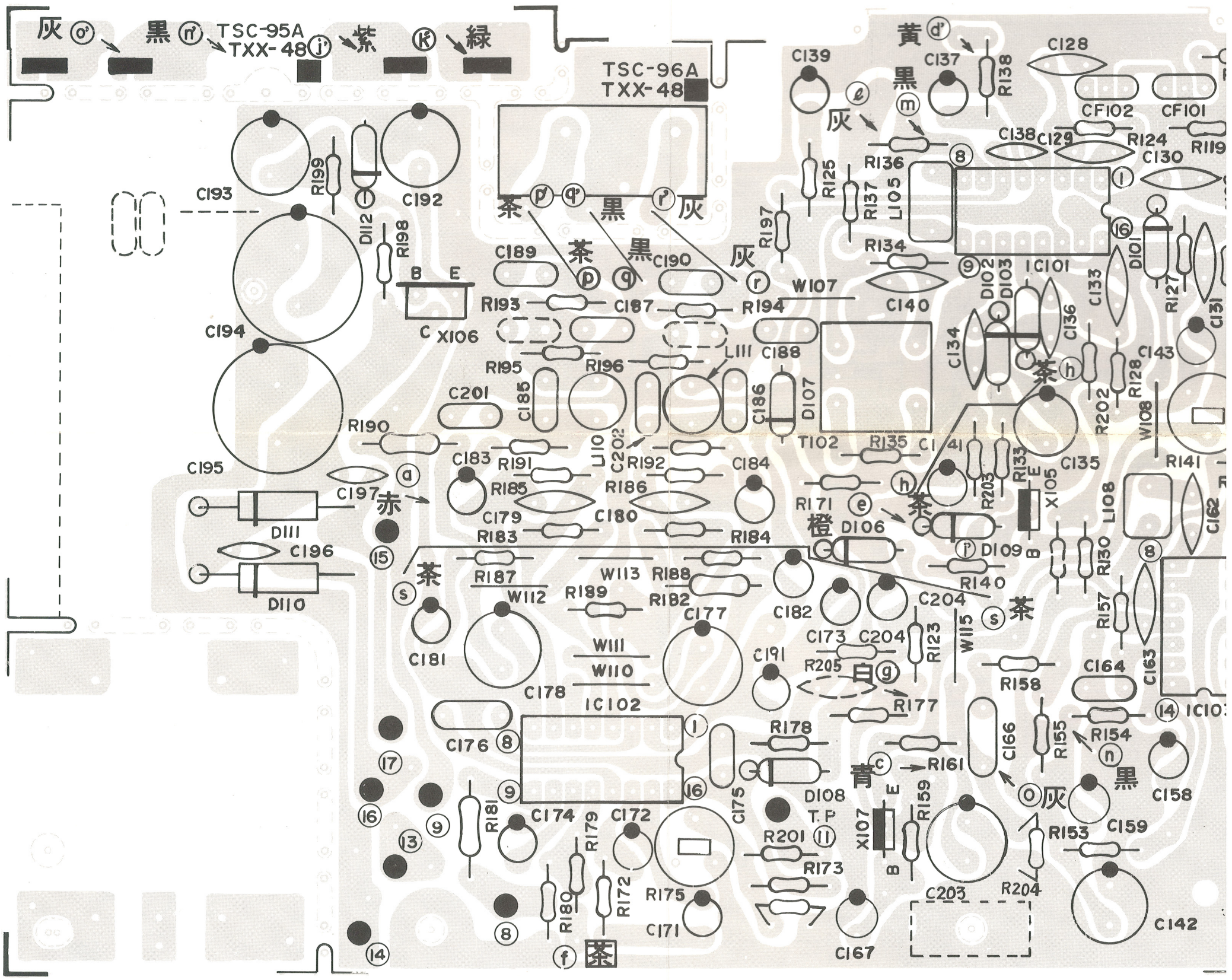
4 MOUNTED THE REAR PANEL) MUST BE
OPER VOLTAGE OF HOME POWER.

JT-V11G(BS) For United Kingdom

PRIMARY CIRCUIT (SELECTABLE AC 110 / 120 /220/240V,~50Hz)
DEEMPHASIS USE 50μSEC (TFM-330GUA3)

JT-V11	CIRCUIT	DEEMPHASIS	R156	C803	C187 C188	C189 C190	C179 C180
(J),(M),(U) (P)	TFM-330 GUA1 TXX-48E	75μSEC	NOT USE	100uF 35V	6800P▲	2700P▲	1200P▲
(A), (E)	TFM-330 GUA2 TXX-48F	50μSEC	560Ω	220uF 35V	8200P▲	6800P▲	470P□
(BS)	TFM-330 GUA3 TXX-48G	50μSEC	NOT USE	220uF 35V	8200P▲	6800P▲	470P□

TXX-48E (F or G) FM/AM Tuner and Switch P.C. Board Ass'y



TXX-59A (B or BBS) Power Supply and Voltage Select Switch P.C. Board Ass'y

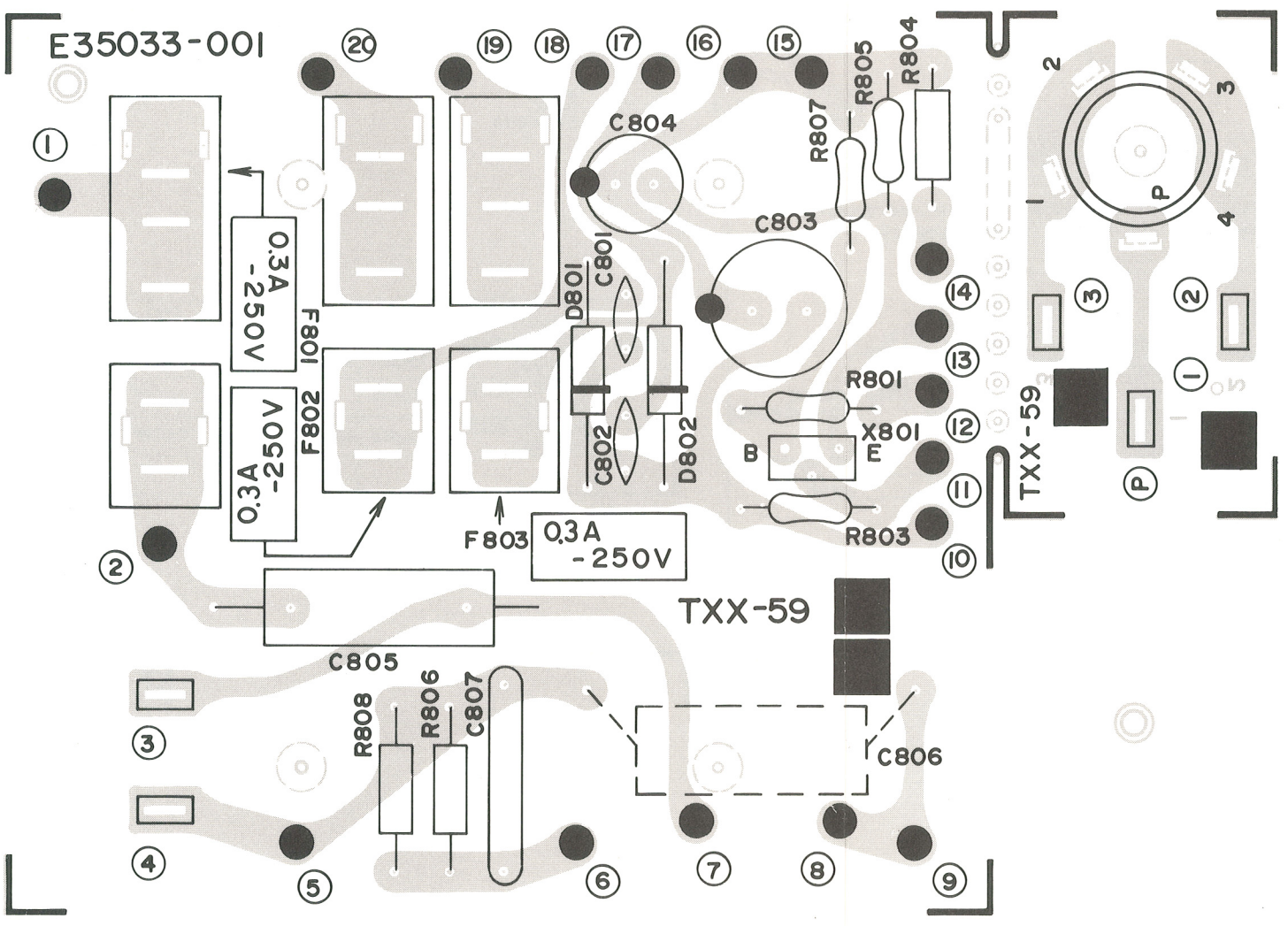


Fig. 21

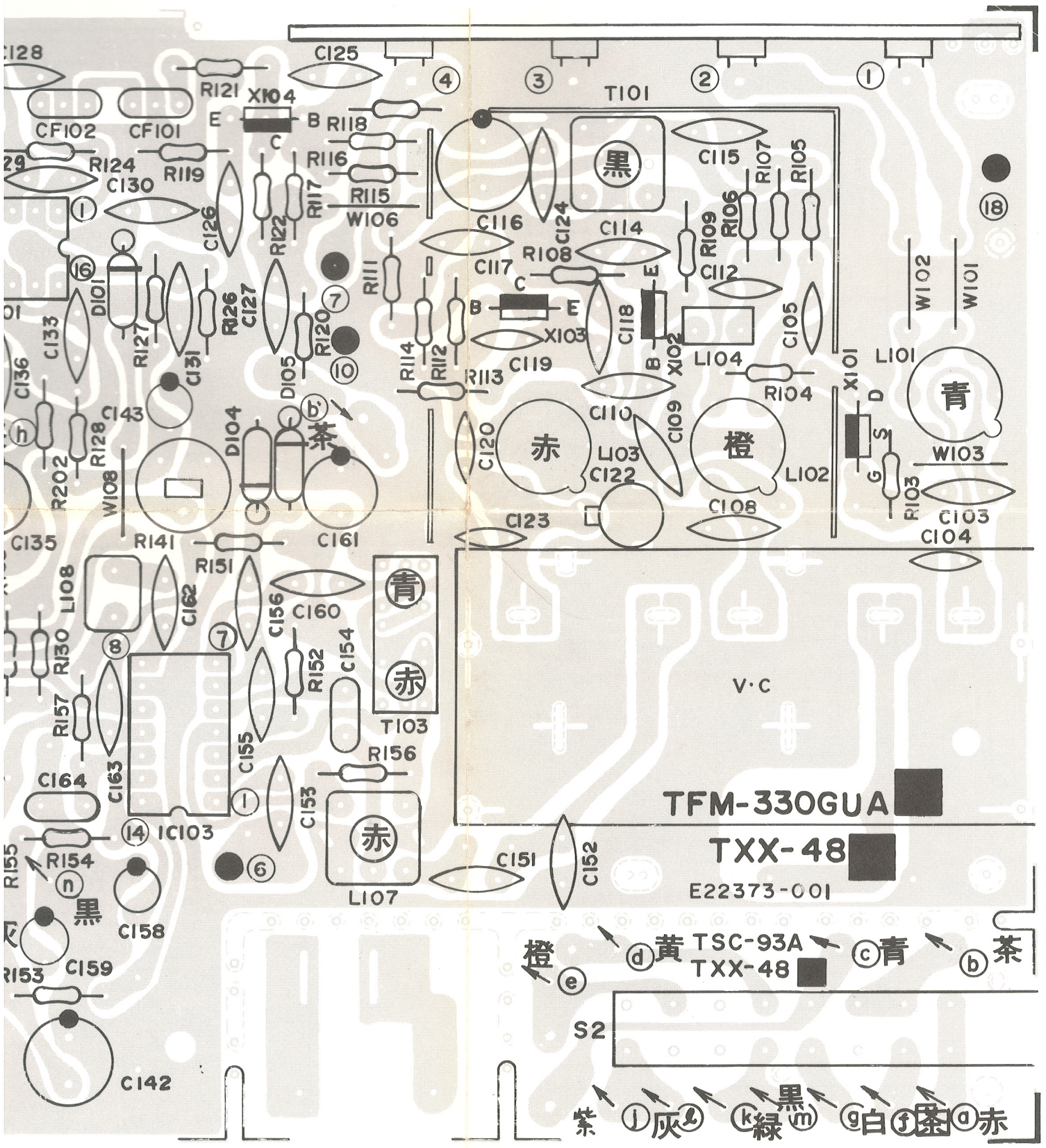

C128
C125
R121
X104
E
B
C
CF102
CF101
R124
R119
C130
R118
R116
R115
W106
R117
R122
C126
C116
C124
C114
R108
C117
C
B
E
X103
C119
R111
R114
R112
R113
C118
B
E
X102
R109
R106
R107
R105
C115
C112
C105
T101
黒
W102
W101
L101
青
W103
C103
C104
X101
D
S
G
R103
L104
R104
C110
C109
C120
赤
L103
C122
橙
L102
C108
C123
C133
C136
C131
R127
R126
C127
D101
R120
D105
C143
D104
茶
R128
R202
W108
C135
R141
R151
C161
C162
C156
C160
L108
R130
R157
R152
C154
青
赤
T103
C155
C163
C164
R156
C153
IC103
14
1
赤
L107
C151
C152
R155
R154
黒
C158
R153
C159
C142
V·C
TFM-330GUA
TXX-48
E22373-001
橙
e
d
黄
TSC-93A
TXX-48
c
青
b
茶
S2
紫
j
灰
l
k
緑
黒
m
g
白
f
茶
a
赤

Fig. 20

11. Parts List with Specified Numbers for Designated Areas

Page	Item No.	Description	For U.S.A. and Canada	For Europe Sweden, Norway Finland, Switzerland Denmark and Australia	For U.K.	For U.S. Military Market and Other Countries
4	3	Power Transformer	E03042-15F	E03042-15E	E03042-15EBS	E03042-15E
4	6	FM/AM Tuner and Switch P.C. Board Ass'y ( ) : De-emphasis	TXX-48E (75 μsec)	TXX-48F (50 μsec)	TXX-48G (50 μsec)	TXX-48E (75 μ SEC : U.S. military market) TXX - 48F (50 μ SEC : Other Countries)
4	9	Power P.C. Board Ass'y	TXX-59A	TXX-59D	TXX-59BBS	TXX-59C
15	C805	Metallized Mylar ⚠ (0.01 μF/1000V)	QFH53AM-103	—	—	QFH53AM-103
15	R806	Composition ⚠ (4.7 MΩ/1/2 W)	QRC121K-475E	—	—	QRC121K-475E
15	R808	Composition ⚠ (4.7 MΩ/1/2 W)	QRC121K-475E	—	—	—
15	F801	Fuse (Primary) ⚠	QMF61U2-R30 (0.3 A)	QMF51A2-R20 (200 mAT)	QMF51A2-R20 (200 mAT)	QMF61U2-R30 (0.3 A)
15	F802	Fuse (Secondary) ⚠	QMF61U2-R30 (300 mA)	QMF51A2-R315 (315 mAT)	QMF51A2-R315 (315 mAT)	QMF61U2-R30 (300 mA)
15	F803	Fuse (Secondary) ⚠	QMF61U2-R30 (300 mA)	QMF51A2-R315 (315 mAT)	QMF51A2-R315 (315 mAT)	QMF61U2-R30 (300 mA)
4	10	Voltage Select P.C. Board Ass'y (TXX-59)	To set 120 V	To set 220 V To set 240 V (Australia)	To set 240 V	To set 110, 120, 220, 240 V each proper voltage
7	20	Cover (for TXX-59)	E60931-001	—	—	—
7	21	Screw	SBSB3008M	—	—	—
7	12	Power Cord ⚠	QMP1200-244	QMP3910-244 (Europe) QMP2500-200 (Australia)	QMP9017-007BS	QMP1200-244
6	11	Power Switch ⚠	QSL1135-012	QSL2235-103	QSL2235-103BS	QSL2235-103
16		Instruction Book	E30580-660A	E30580-660A	E30580-660ABS	E30580-660A
16		Warranty Card	BT20032 (U.S.A.) BT20025 (Canada)	BT20029 (Australia)	BT20013B	BT20014B (PACEX only)
10	23A	Cord Stopper ⚠	QHS3876-162	QHS3876-162	QHS3876-162BS	QHS3876-162
6	18	Chassis Base	E10104-004	E10104-004	E10104-005	E10104-004

NOTE ⚠ : SAFETY PARTS